

Mathematics 1220 Calculus II, Examination 2, Sep 25,27, 2003

Find all the integrals. Remember that definite integrals should have numerical answers.
You MUST show your work.

1a. $\int \frac{dx}{(1+x)\sqrt{x}}$

1b. $\int \frac{2+x}{1+x} dx$

2. $\int e^x x dx$

3. $\int_1^2 \frac{x^2 - 4x + 1}{x(x-4)^2} dx$

4a. $\int \frac{dx}{\sqrt{1-x^2}}$

4a. $\int \frac{x dx}{1+4x^2}$

5. $\int \ln x dx$